

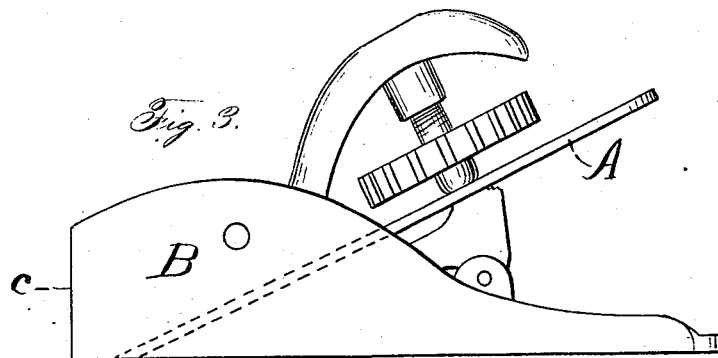
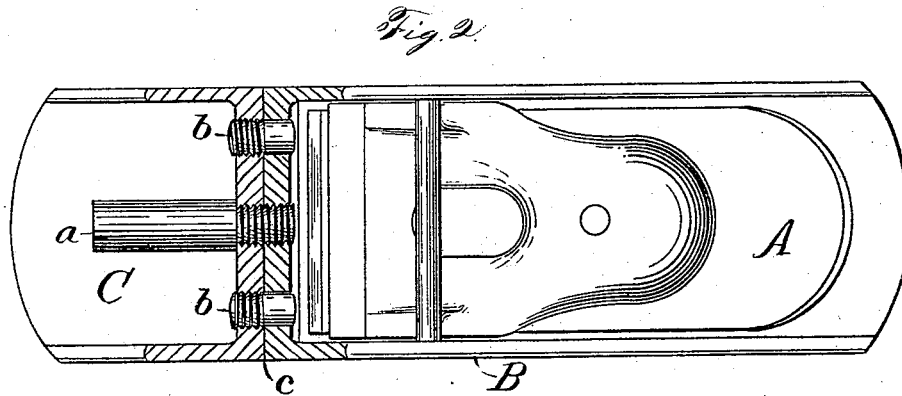
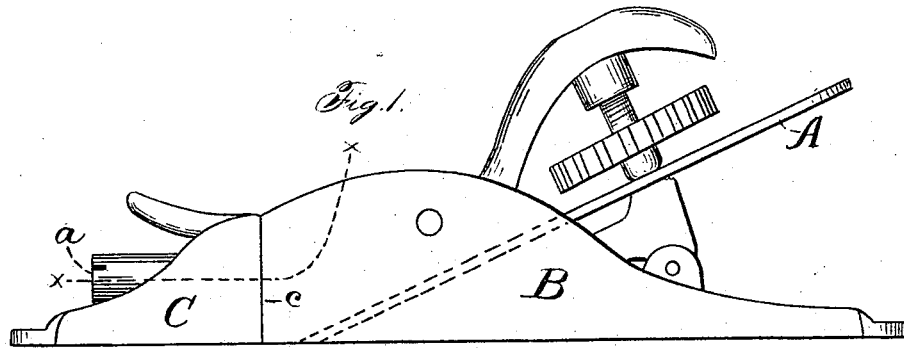
(No Model.)

J. A. TRAUT.

BENCH PLANE.

No. 291,815.

Patented Jan. 8, 1884.



Witnesses.
John Edwards Jr.
Eddy N. Smith

Inventor.
Justus A. Traut.
By James Shepard
Atty.

UNITED STATES PATENT OFFICE.

JUSTUS A. TRAUT, OF NEW BRITAIN, CONNECTICUT.

BENCH-PLANE.

SPECIFICATION forming part of Letters Patent No. 291,815, dated January 8, 1884.

Application filed November 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, JUSTUS A. TRAUT, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Bench-Planes, of which the following is a specification.

My invention relates to improvements in bench-planes; and the object of my improvement is to make a cheap and convenient form of convertible "bull-nosed" and common hand plane. Such convertible planes have heretofore been made by a change in the position of the cutter. I attain this object by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of my convertible plane. Fig. 2 is a partial plan view and section thereof on line *xx* of Fig. 1. Fig. 3 is a side elevation of the same arranged for use as a bull-nosed plane.

The term "bull-nosed" is used to denote a plane in which the cutting-bit *A* extends practically to the forward end of the stock, to enable the plane to be used in planing up against a shoulder and in cramped places. Such planes are well known in the art.

For the ordinary uses of a hand-plane, the forward end of the cutting-bit should be a little forward of the middle of the stock.

As shown in Figs. 1 and 2, my plane is so arranged for use as an ordinary block-plane. The general form of the stock *B* and the construction of the adjusting and holding mechanism may be of any ordinary character. I form the forward end of the stock proper, *B*, with a vertical face or seat, *c*, upon which I secure the attachable and detachable stock-extension *C* by means of a screw, *a*. It is also

further secured by means of dowels *b b*, secured to one part of the stock, or made integral therewith, and fitting into corresponding sockets in the other part, substantially as shown. After the extension *C* has been properly secured to the stock *B*, the bottom face of the whole stock is planed or smoothed off, as shown in Fig. 1. The extension *C* then constitutes a part of the stock, and the plane is substantially the same for all the uses of the ordinary hand-plane as if the extension *C* were made integral with the stock *B*. When it is desired to convert the instrument into a bull-nosed plane, it is only necessary to remove the fastening-screw *a* and the extension *C*, when a well-balanced bull-nosed plane remains, as shown in Fig. 3.

By my improvement I produce a convertible bull-nosed and hand plane at a small expense, and in which both forms of plane are left in their ordinary characteristic and well-balanced form, and in which the cutter is not necessarily removed in changing from one form of plane to the other, and in which there is plenty of room to arrange the ordinary adjusting mechanism underneath and in the rear of the cutter.

I claim as my invention—

The herein-described convertible plane, consisting of the stock *B*, adapted to receive and hold the cutting-bit, and provided with the attachable and detachable stock-extension *C*, substantially as described, and for the purpose specified.

JUSTUS A. TRAUT.

Witnesses:

JAMES SHEPARD,
EDDY N. SMITH.